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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/051,859	01/15/2002	Hardayal Singh Gill	SJO9-2001-0007US1 1622	
32112	7590 04/02/2004		EXAMINER:	
	TUAL PROPERTY I	OMETŽ, DAVID ĻOUIS		
	SCOM AVENUE, SUIT L, CA 95008	E 000	ART UNIT	PAPER NUMBER
			2653	13
			DATE MAILED: 04/02/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/051,859	GILL, HARDAYAL SINGH			
Office Action Summary	Examiner	Art Unit			
	David L. Ometz	2653			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ib(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on 13 Fee This action is FINAL. Since this application is in condition for allowant closed in accordance with the practice under E 	action is non-final. ice except for formal matters, pro	osecution as to the merits is			
Disposition of Claims					
4) ☐ Claim(s) <u>1-35</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) <u>13-17</u> is/are allowed. 6) ☐ Claim(s) <u>1,2,10,18,19,27 and 30-32</u> is/are reject 7) ☐ Claim(s) <u>3-9,11,12,20-26,28,29 and 33-35</u> is/ar 8) ☐ Claim(s) are subject to restriction and/or	cted. re objected to.				
Application Papers					
9) The specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the		•			
Replacement drawing sheet(s) including the correcti		• • • • • • • • • • • • • • • • • • • •			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage			
and the second of the second o	Johanna Jopido Hot 1606146	· .			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	(PTO-413) te atent Application (PTO-152)			
Patent and Trademark Office					

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Art Unit: 2653

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/13/04 and attached to paper number 10 has been entered.
- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 2, 10, 18, 19, 27, 30-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Sakaguci et al (US Pat 6574080).

As per claims 1, 2, 10, 18, 19, 27, 30-32, Sakaguci et al '080 shows a spin valve MR head in figure 2A that has: a free magnetic layer 4 with a planar upper surface that extends across the central and end regions of the free layer 4; an anti-parallel coupled magnetic layer structure (elements 2001-2005) being directly disposed upon the upper surface of the free layer 4 at the outer end regions thereof wherein there are two anti-parallel coupled magnetic layers 2002/2004 (also, as per claim 31, the seed layer 2001 is placed directly on the end portions of the free layer 4); thin film nonmagnetic layer 2003; and the net biasing magnetic field is in the same direction as the free layer magnetization in order to longitudinally bias the free layer 4 (see col. 7, lines 18-60).

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4. Claims 1, 2, 10, 18, 19, 27, 30 are rejected under 35 U.S.C. 102(e) as being anticipated by Sakaguci et al (US Pat 6633466).

As per claims 1, 2, 10, 18, 19, 27, 30, Sakaguci et al '466 shows a spin valve MR head in figure 1C that has: a free magnetic layer 4 with a planar upper surface that extends across the central and end regions of the free layer 4; an anti-parallel coupled magnetic layer structure (elements 6-8) being directly disposed upon the upper surface of the free layer 4 at the outer end regions thereof wherein there are two anti-parallel coupled magnetic layers 6, 8; thin film nonmagnetic layer 7; and the net biasing magnetic field is in the same direction as the free layer magnetization in order to longitudinally bias the free layer 4 (see all of col. 5 through line 16 of col. 6).

- 5. Claims 3-9, 11, 12, 20-26, 28, 29, 33-35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Claims 13-17 are allowed.
- 7. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.
- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ooshima et al shows a spin valve MR head with AP bias layers stacked directly on the free layer.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L. Ometz whose telephone number is (703) 308-1296. The examiner can normally be reached on M-W, 6:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on (703) 305-6137. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David L. Ometz A Primary Examiner Art Unit 2653

DLO 3/31/04